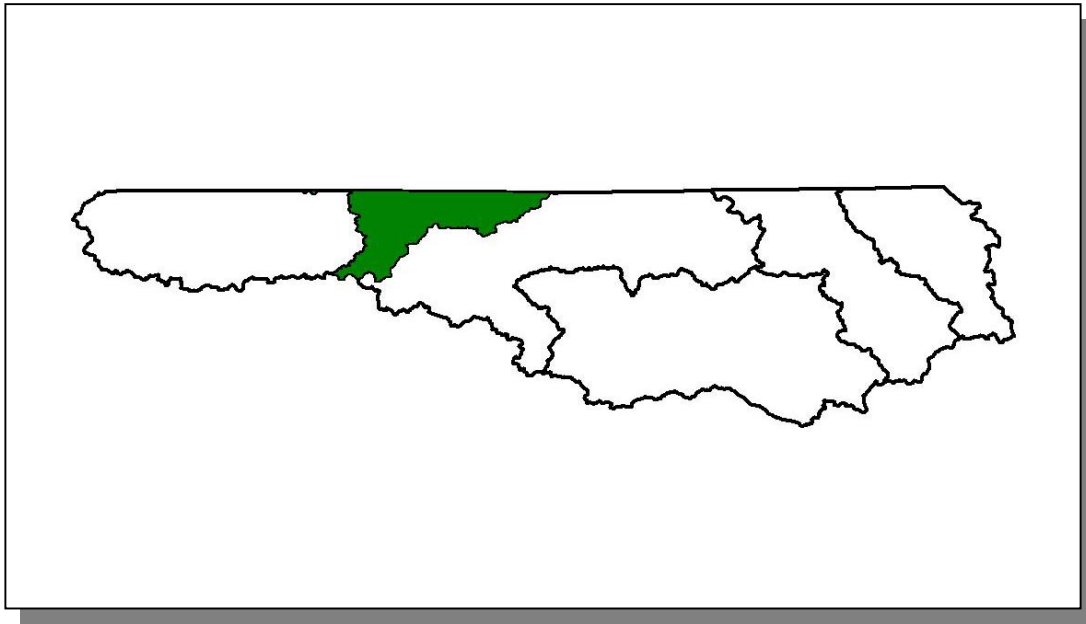
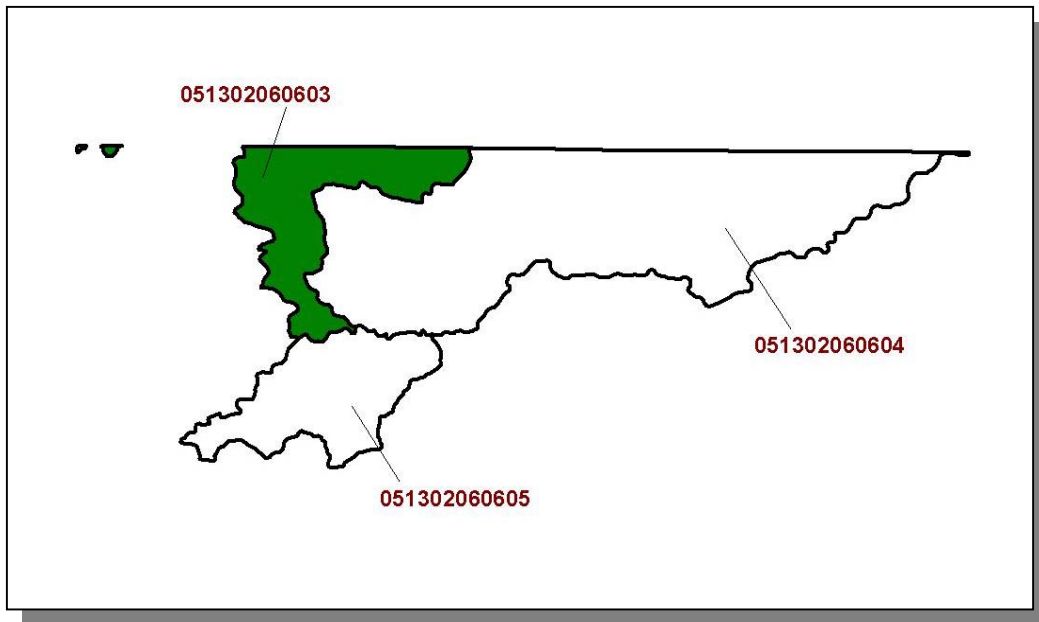


**4.2.E. 0513020606**

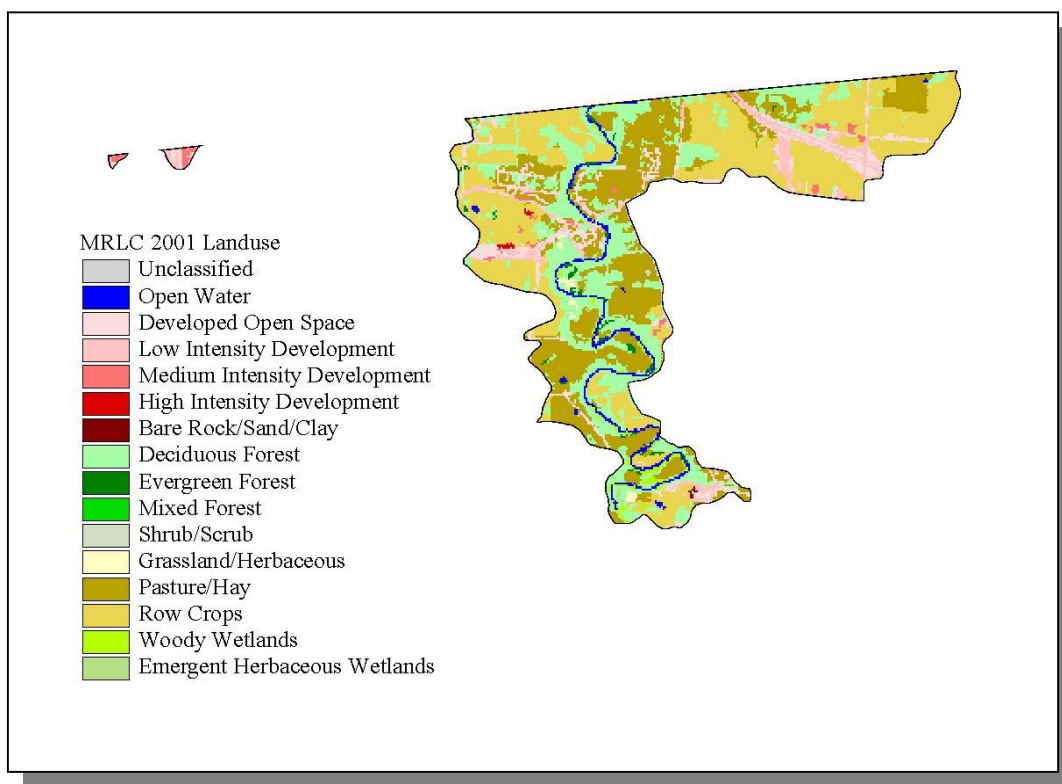


**Figure 4-163. Location of Subwatershed 0513020606.** All Red River HUC-10 subwatershed boundaries in Tennessee are shown for reference.

**4.2.E.i. 051302060603 (West Fork Red River).**

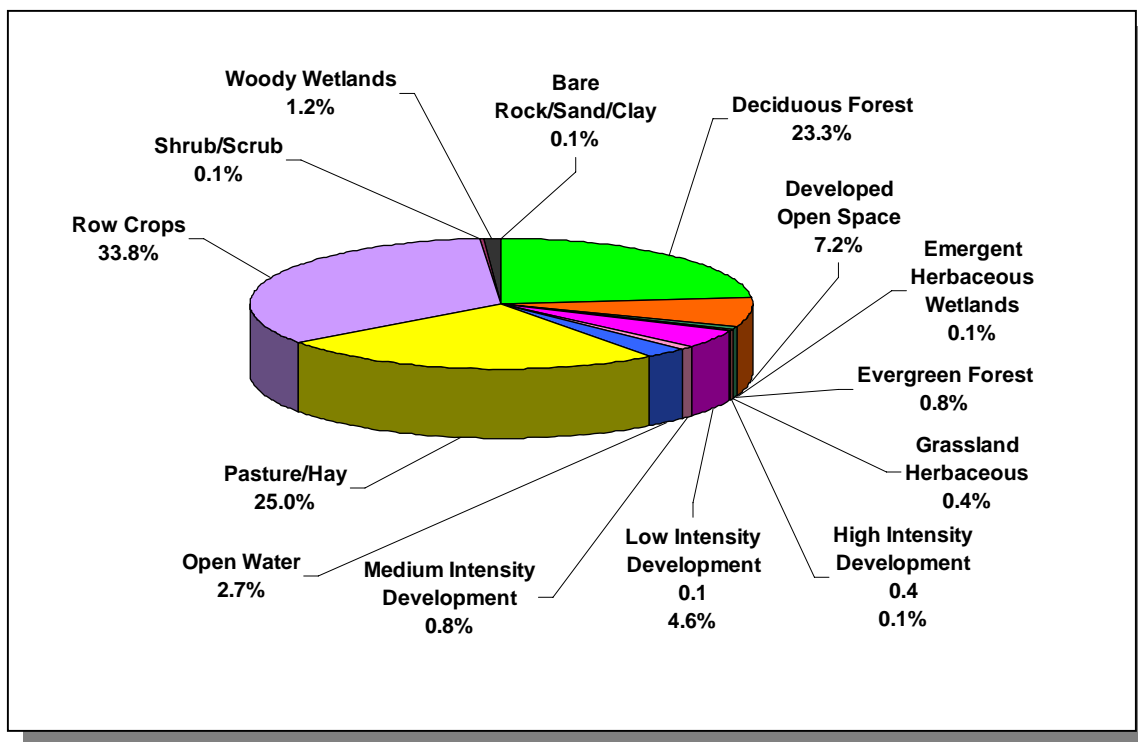


**Figure 4-164. Location of Subwatershed 051302060603.** All Red River HUC-12 subwatershed boundaries in Tennessee are shown for reference.



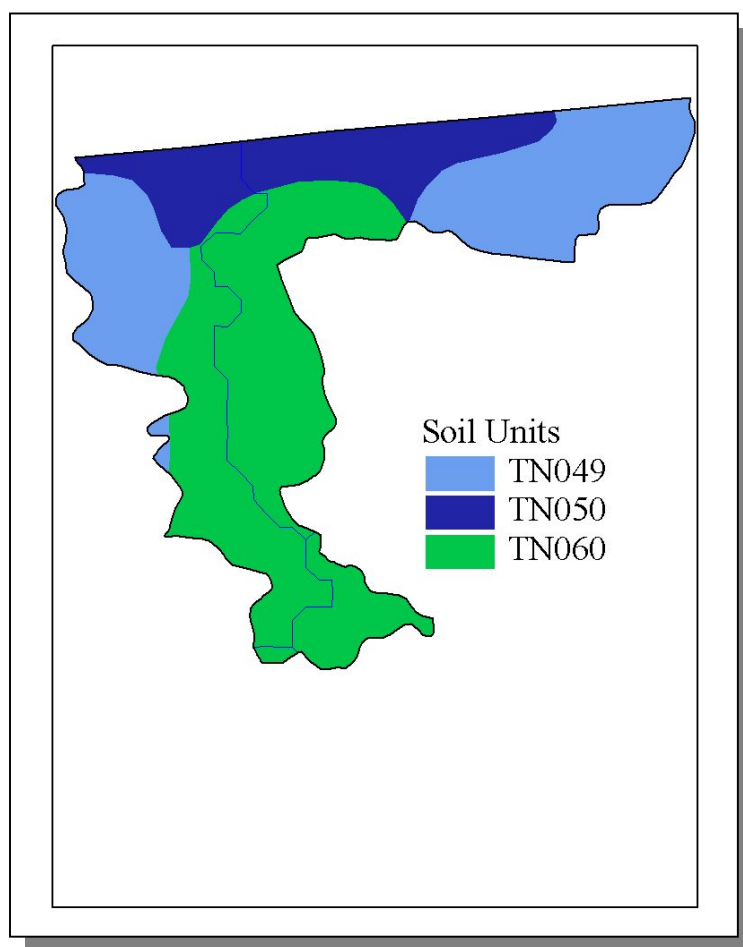
**Figure 4-165. Illustration of Land Use Distribution in Subwatershed 051302060603.**

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**Figure 4-166. Land Use Distribution in Subwatershed 051302060603.** More information is provided in Appendix IV.

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**Figure 4-167. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302060603.**

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN049	0.00	C	1.30	5.94	Silty Loam	0.34
TN050	0.00	B	1.30	5.97	Silty Loam	0.33
TN060	5.00	C	1.30	5.32	Silty Loam	0.39

**Table 4-128. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302060603.** The definition of "Hydrologic Group" is provided in Appendix IV.

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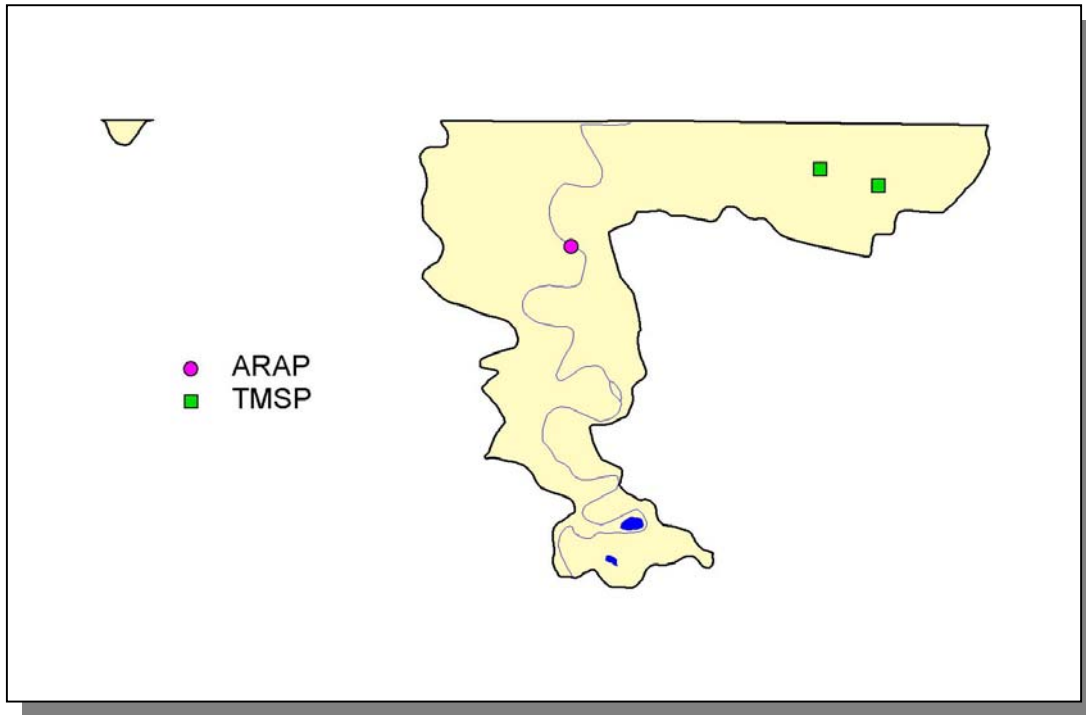
County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Montgomery	100,498	124,369	134,768	1.46	1,463	1,811	1,962	34.1

*Table 4-129. Population Estimates in Subwatershed 051302060603.*

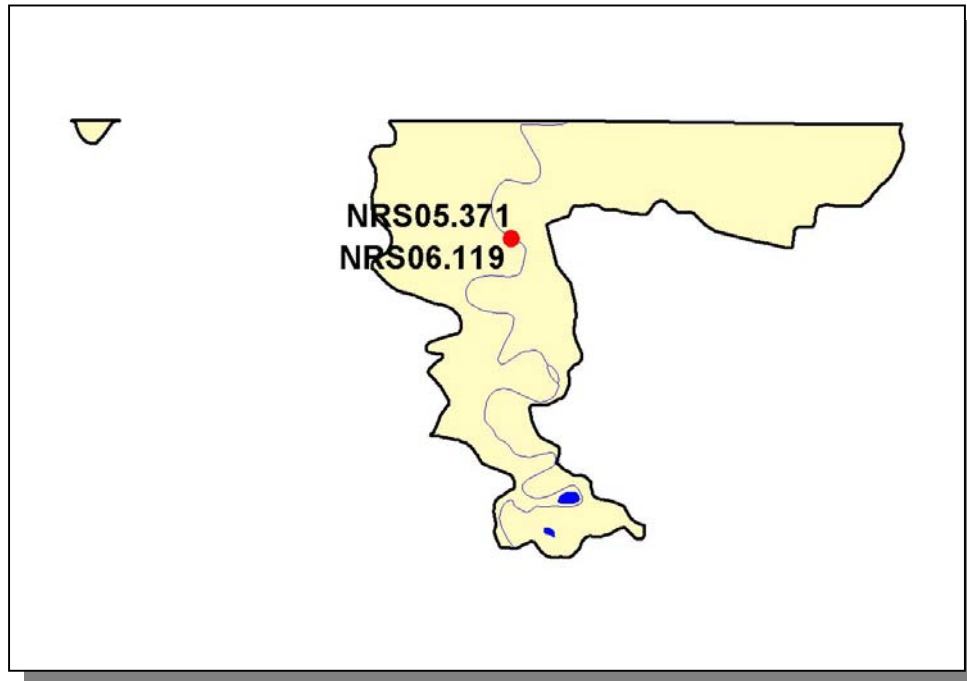
			NUMBER OF HOUSING UNITS			
Populated Place	County	Population	Total	Public Sewer	Septic Tank	Other
Clarksville	Montgomery	75,494	27,642	23,610	3,956	76

*Table 4-130. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 051302060603.*

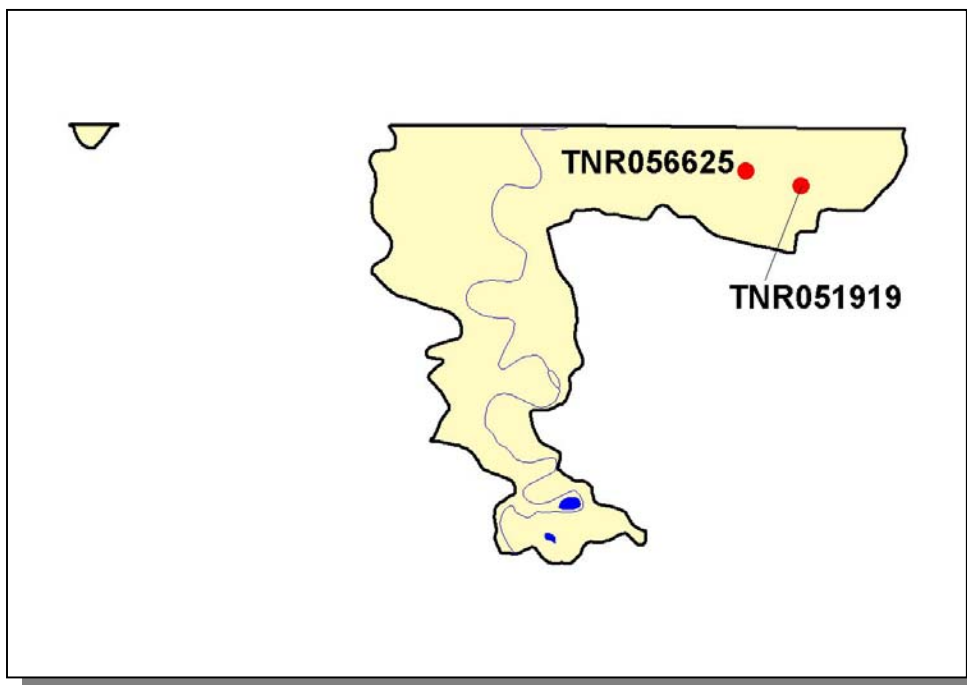
**4.2.E.i.a. Point Source Contributions.**



**Figure 4-168. Location of Permits Issued in Subwatershed 051302060603.** More information, including the names of facilities, is provided in Appendix IV.



**Figure 4-169. Location of Aquatic Resource Alteration Permit (ARAP) Sites (Individual Permits) in Subwatershed 051302060603.** More information is provided in Appendix IV.



**Figure 4-170. Location of TMSP Sites in Subwatershed 051302060603.** More information, including the names of facilities, is provided in Appendix IV.



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**4.2.E.i.b. Nonpoint Source Contributions.**

LIVESTOCK COUNTS					
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
495	955	23	<5	43	<5

**Table 4-131. Summary of Livestock Count Estimates in Subwatershed 051302060603.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Montgomery	16,051	30,959	760	913	1,408	107

**Table 4-132. Summary of Livestock Count Estimates in Montgomery County.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

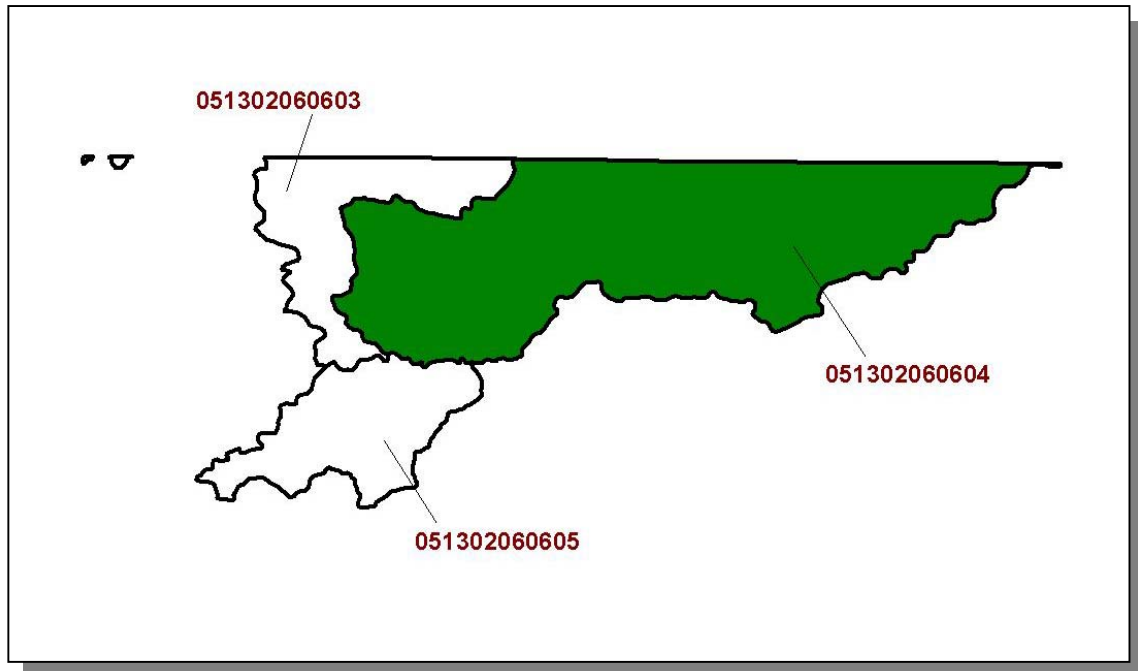
	INVENTORY		REMOVAL RATE	
County	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Montgomery				

**Table 4-133. Forest Acreage and Annual Removal Rates (1987-1994) in Montgomery County.**

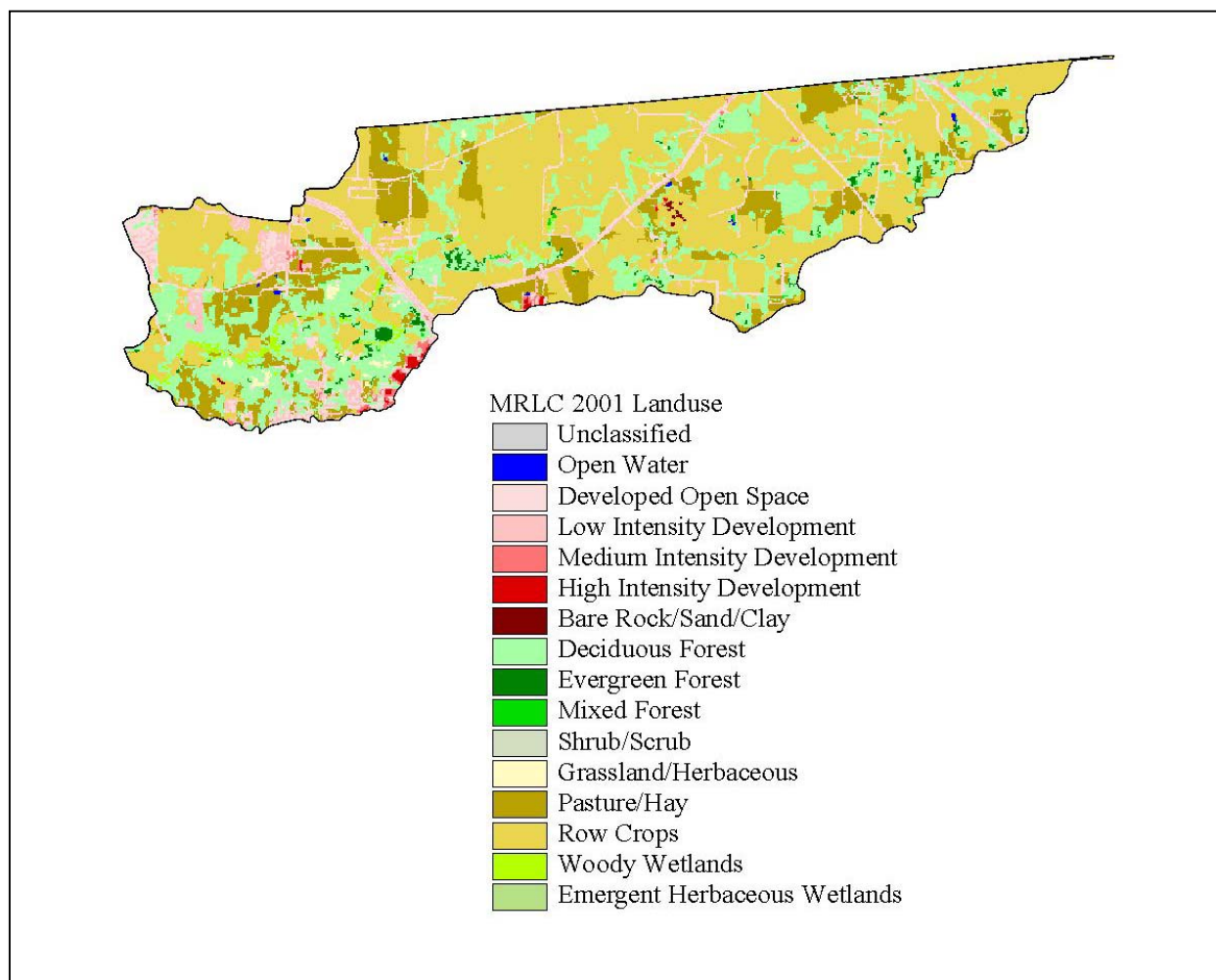
CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.45
Grass (Hayland)	0.29
Legumes, Grass (Hayland)	0.40
Grass, Forbs, Legumes (Mixed Pasture)	0.55
Corn (Row Crops)	8.04
Soybeans (Row Crops)	4.26
Tobacco (Row Crops)	22.25
Conservation Reserve Program Lands	0.41
Farmsteads and Ranch Headquarters	0.04

**Table 4-134. Annual Estimated Total Soil Loss in Subwatershed 051302060603.**

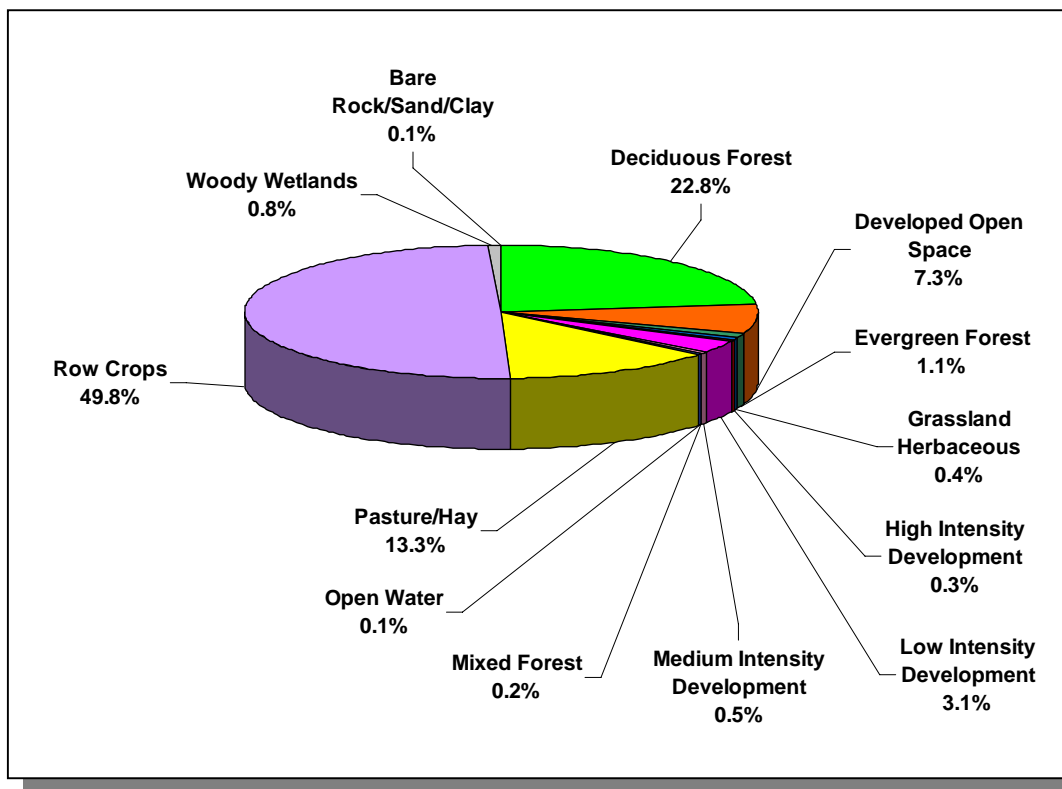
**4.2.E.ii. 051302060604 (Spring Creek).**



**Figure 4-171. Location of Subwatershed 051302060604.** All HUC-12 subwatershed boundaries are shown for reference.

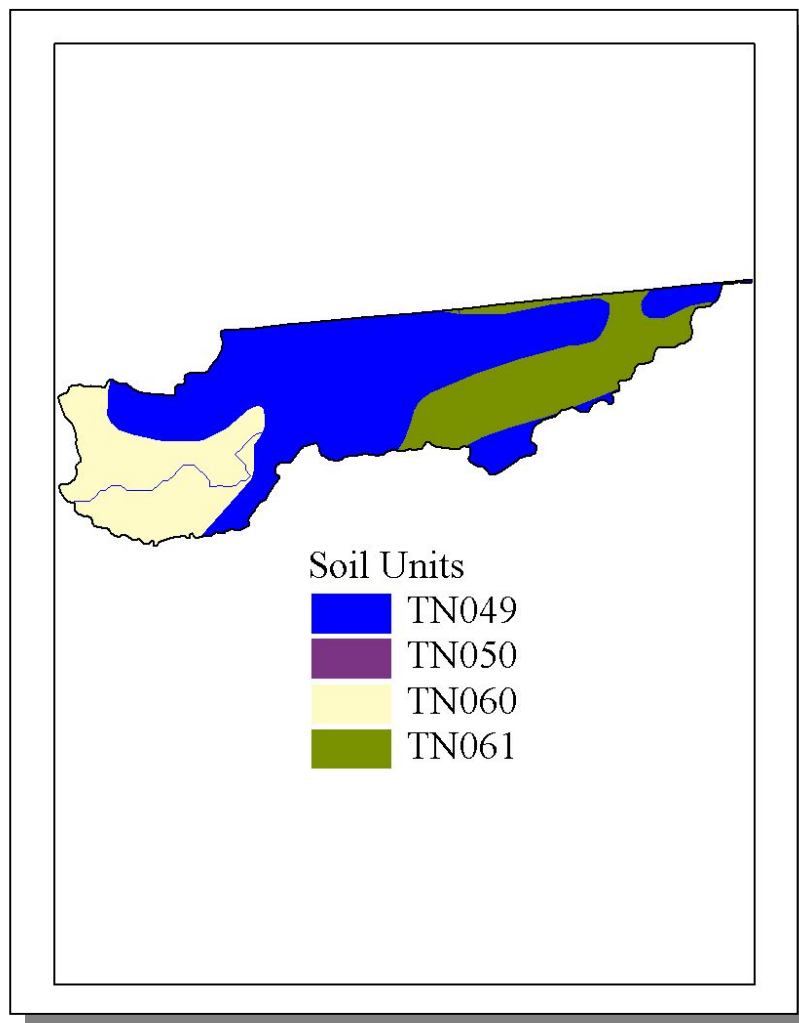


**Figure 4-172. Illustration of Land Use Distribution in Subwatershed 051302060604.**



**Figure 4-173. Land Use Distribution in Subwatershed 051302060604.** More information is provided in Appendix IV.

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**Figure 4-174. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302060604.**

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN049	0.00	C	1.30	5.94	Silty Loam	0.34
TN050	0.00	B	1.30	5.97	Silty Loam	0.33
TN060	5.00	C	1.30	5.32	Silty Loam	0.39
TN061	50.00	B	1.30	5.09	Silty Loam	0.42

**Table 4-135. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302060604.** The definition of "Hydrologic Group" is provided in Appendix IV.

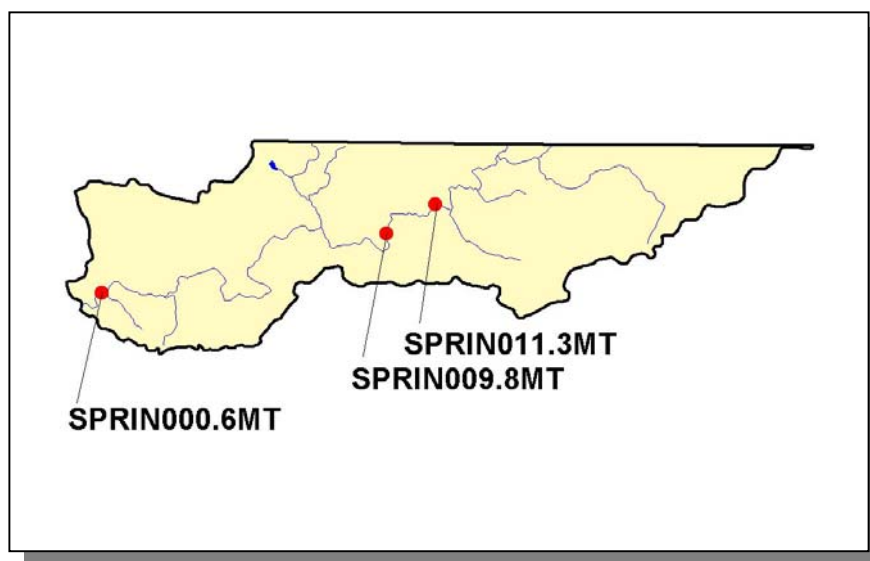
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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Montgomery	100,498	124,369	134,768	5.86	5,887	7,286	7,895	34.1

**Table 4-136. Population Estimates in Subwatershed 051302060604.**

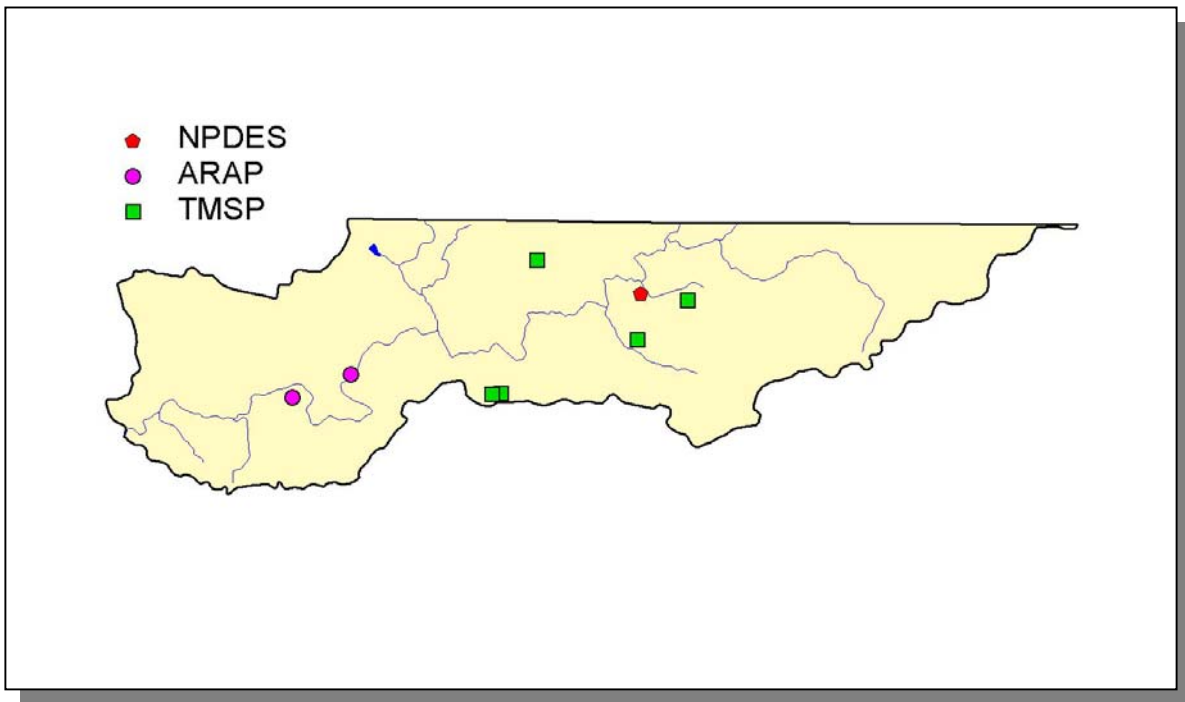
Populated Place	County	Population	NUMBER OF HOUSING UNITS			
			Total	Public Sewer	Septic Tank	Other
Clarksville	Montgomery	75,494	27,642	23,610	3,956	76

**Table 4-137. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 051302060604.**

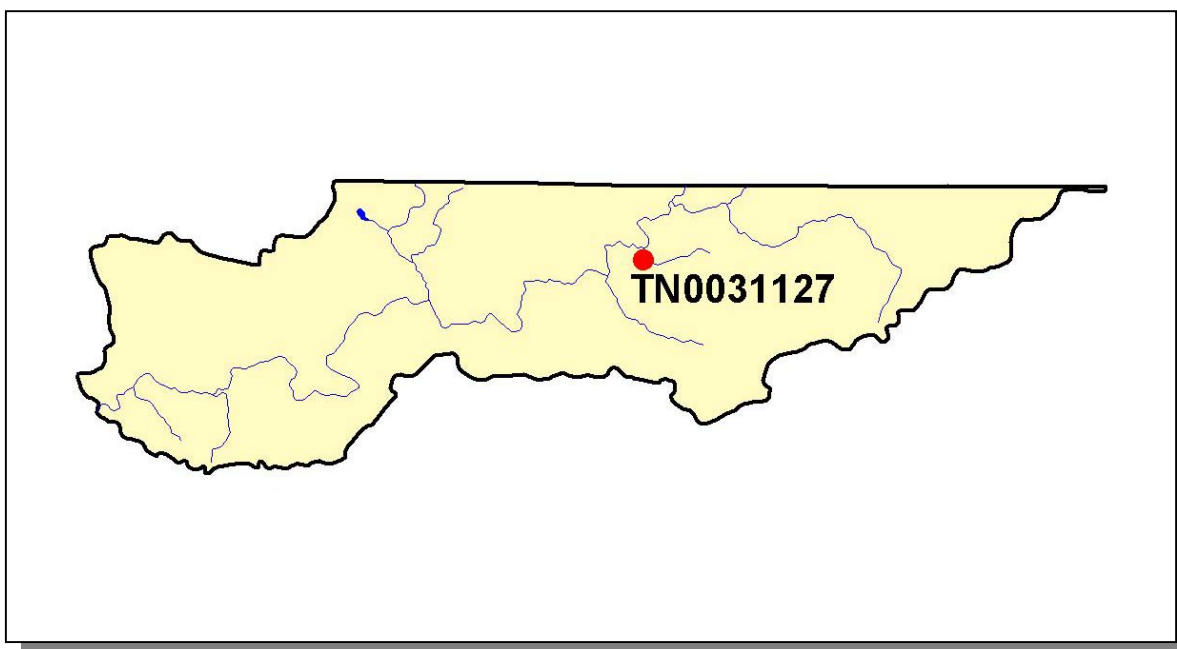


**Figure 4-175. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051302060604.** More information, including site names and locations and stations located in the watershed outside of Tennessee, is provided in Appendix IV.

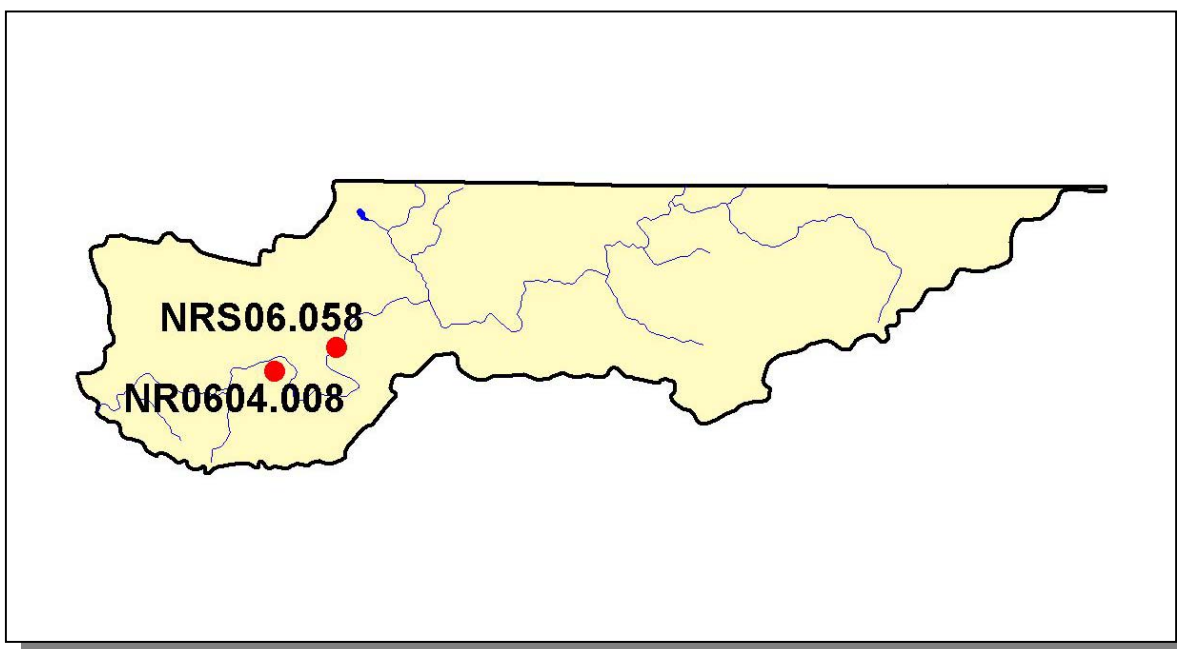
**4.2.E.ii.a. Point Source Contributions.**



**Figure 4-176. Location of Permits Issued in Subwatershed 051302060604.** More information, including the names of facilities, is provided in Appendix IV.

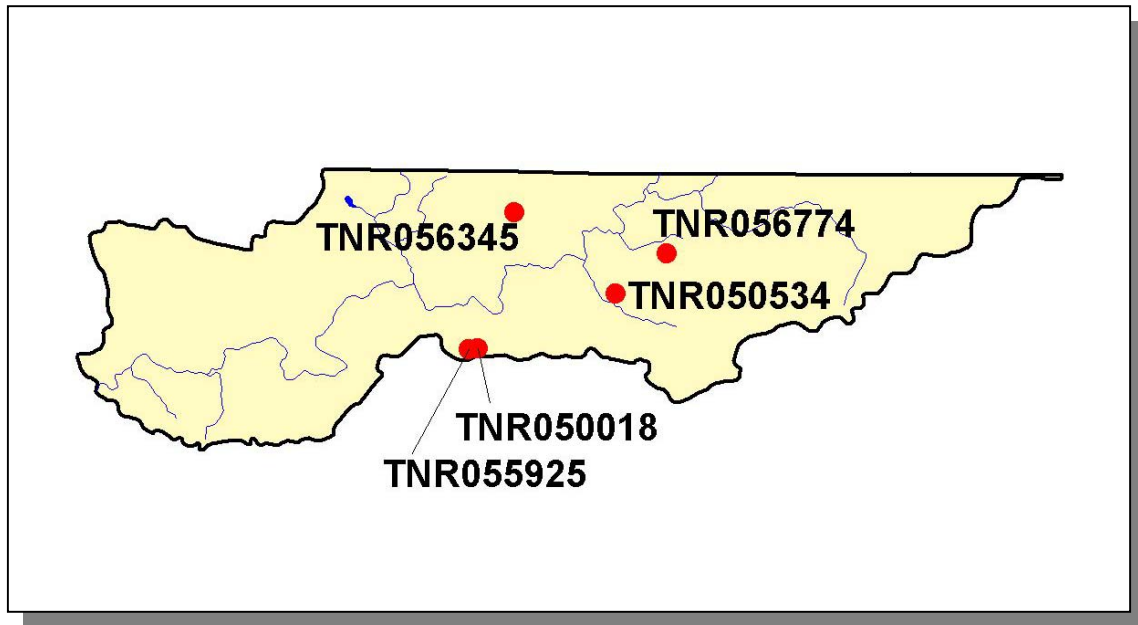


**Figure 4-177. Location of Active NPDES Sites in Subwatershed 051302060604.** More information, including the names of facilities, is provided in Appendix IV.



**Figure 4-178. Location of Aquatic Resource Alteration Permit (ARAP) Sites (Individual Permits) in Subwatershed 051302060604.** More information is provided in Appendix IV.



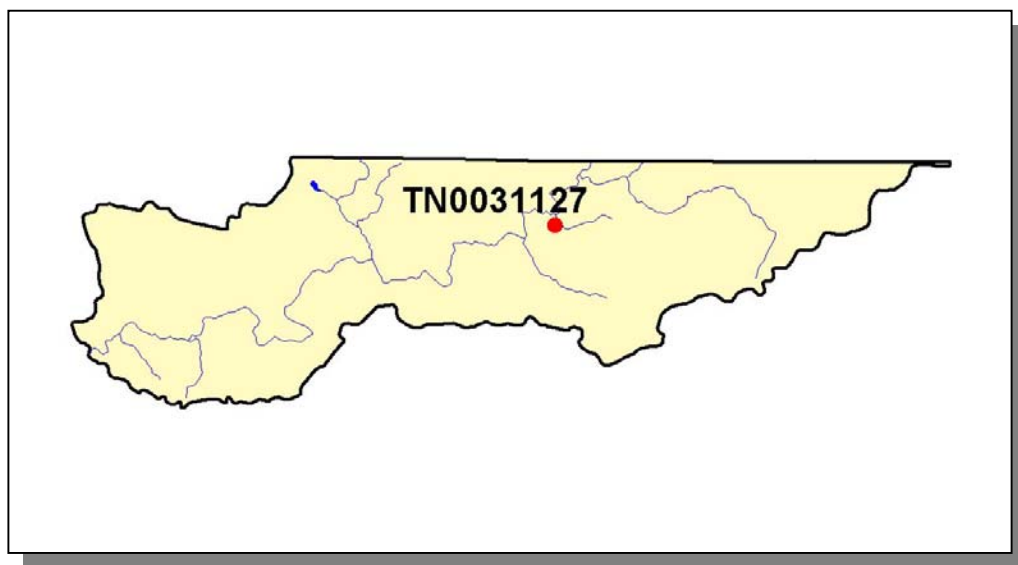


**Figure 4-179. Location of TMSP Sites in Subwatershed 051302060604.** More information, including the names of facilities, is provided in Appendix IV.

#### 4.2.E.ii.a.i. Dischargers to Water Bodies Listed on the 2004 303(d) List

There is one NPDES facility discharging to water bodies listed on the 2004 303(d) list in Subwatershed 051302060604:

- TN0031127 (SIRCO) discharges to a wet weather conveyance to Spring Creek @ RM 11.5



**Figure 4-180. Location of NPDES Dischargers to Water Bodies Listed on the 2004 303(d) List in Subwatershed 051302060604.** More information, including the names of facilities, is provided in Appendix IV.

PERMIT #	1Q10	3Q10	7Q10	3Q20	QDESIGN
TN0031127					

**Table 4-138. Receiving Stream Flow Information for NPDES Dischargers to Waterbodies Listed on the 2004 303(d) List in Subwatershed 051302060604.** Data are in million gallons per day (MGD). Data were obtained from the USGS publication *Flow Duration and Low Flows of Tennessee Streams Through 1992* or from permit files.

PERMIT #	FLOW
TN0031127	X

**Table 4-139. Monitoring Requirements for NPDES Dischargers to Waterbodies Listed on the 2004 303(d) List in Subwatershed 051302060604.**

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**4.2.E.ii.b. Nonpoint Source Contributions.**

LIVESTOCK COUNTS					
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
1,551	2,991	73	<5	136	10

**Table 4-140. Summary of Livestock Count Estimates in Subwatershed 051302060604.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Montgomery	16,051	30,959	760	913	1,408	107
Robertson	22,502	47,887	3,478	31	6,982	279

**Table 4-141. Summary of Livestock Count Estimates in Montgomery and Robertson Counties.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

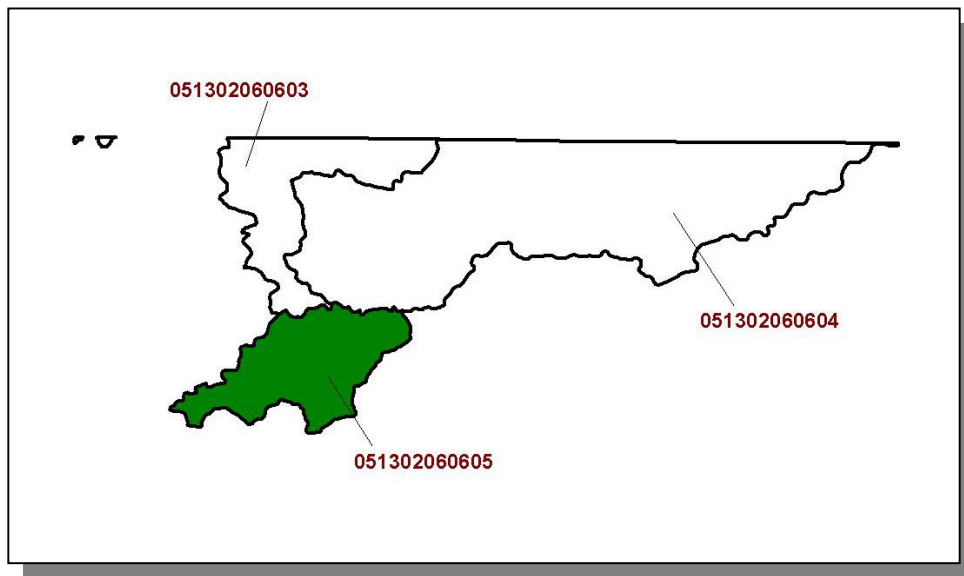
County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Montgomery				
Robertson	53.0	53.0	2.2	9.7

**Table 4-142. Forest Acreage and Annual Removal Rates (1987-1994) in Montgomery and Robertson Counties.**

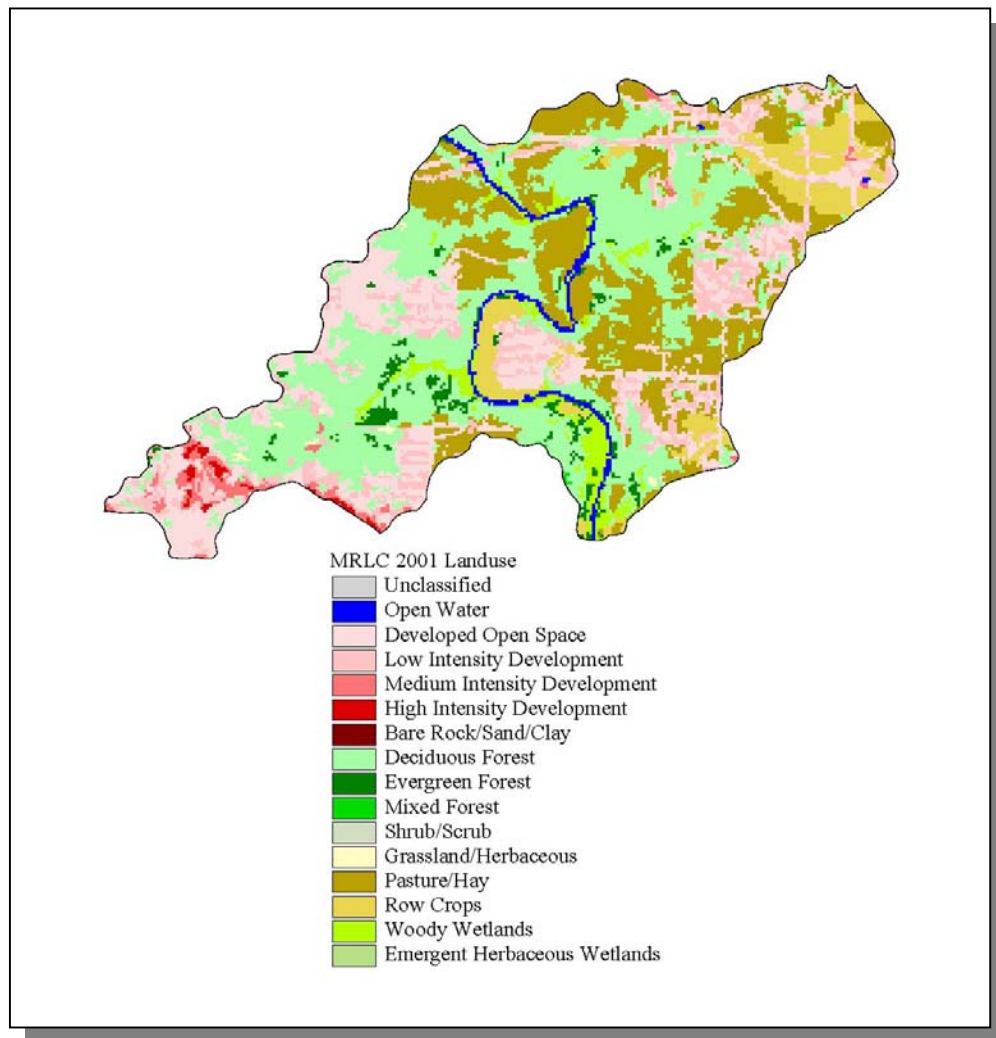
CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.45
Grass (Hayland)	0.29
Legumes, Grass (Hayland)	0.40
Legumes (Hayland)	0.73
Grass, Forbs, Legumes (Mixed Pasture)	0.55
Corn (Row Crops)	8.04
Soybeans (Row Crops)	4.26
Tobacco (Row Crops)	22.25
Wheat (Close-Grown Cropland)	1.68
Other Cropland not Planted	9.59
Conservation Reserve Program Lands	0.41
Other Land in Farms	0.27
Farmsteads and Ranch Headquarters	0.04

**Table 4-143. Annual Estimated Total Soil Loss in Subwatershed 051302060604.**

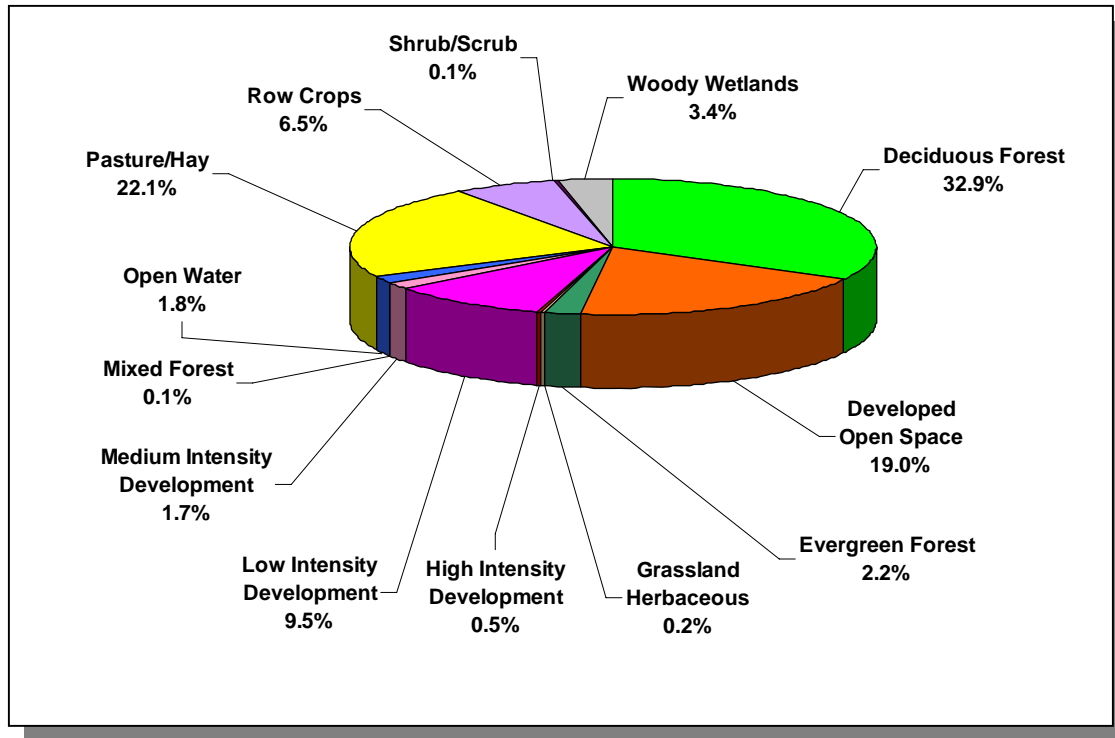
**4.2.E.iii. 051302060605 (West Fork Red River).**



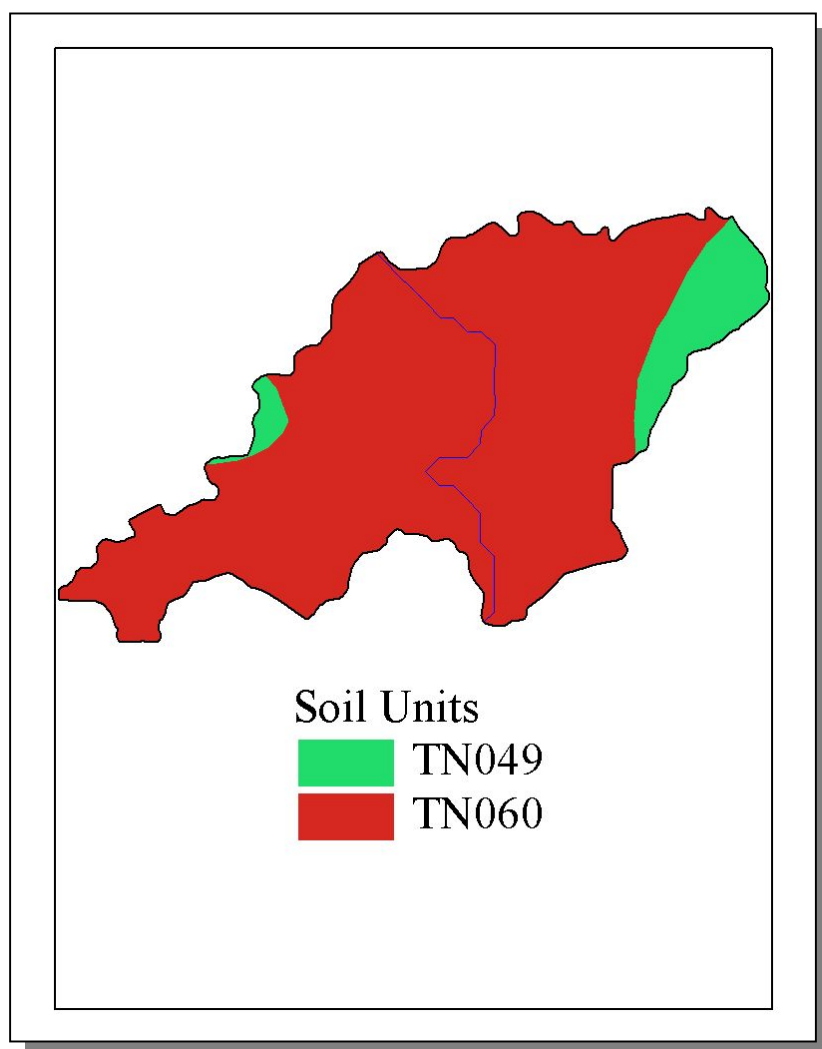
**Figure 4-181. Location of Subwatershed 051302060605.** All Red River HUC-12 subwatershed boundaries in Tennessee are shown for reference.



**Figure 4-182. Illustration of Land Use Distribution in Subwatershed 051302060605.**



**Figure 4-183. Land Use Distribution in Subwatershed 051302060605.** More information is provided in Appendix IV.



**Figure 4-184. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302060605.**

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN049	0.00	B	1.30	5.94	Silty Loam	0.34
TN060	5.00	B	1.30	5.32	Silty Loam	0.39

**Table 4-144. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302060605.** The definition of “Hydrologic Group” is provided in Appendix IV.

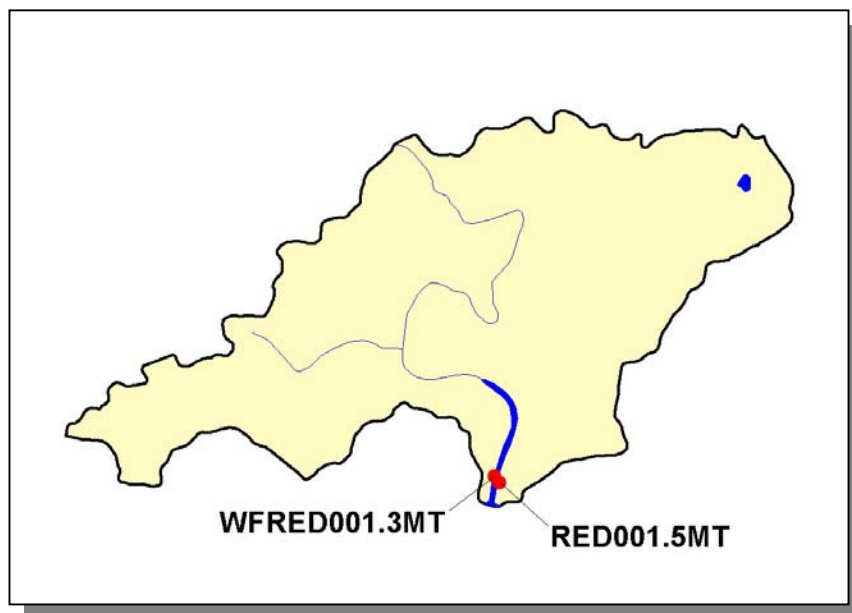
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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Montgomery	100,498	124,369	134,768	1.5	1,512	1,871	2,028	34.1

**Table 4-145. Population Estimates in Subwatershed 051302060605.**

Populated Place	County	Population	NUMBER OF HOUSING UNITS			
			Total	Public Sewer	Septic Tank	Other
Clarksville	Montgomery	75,494	27,642	23,610	3,956	76

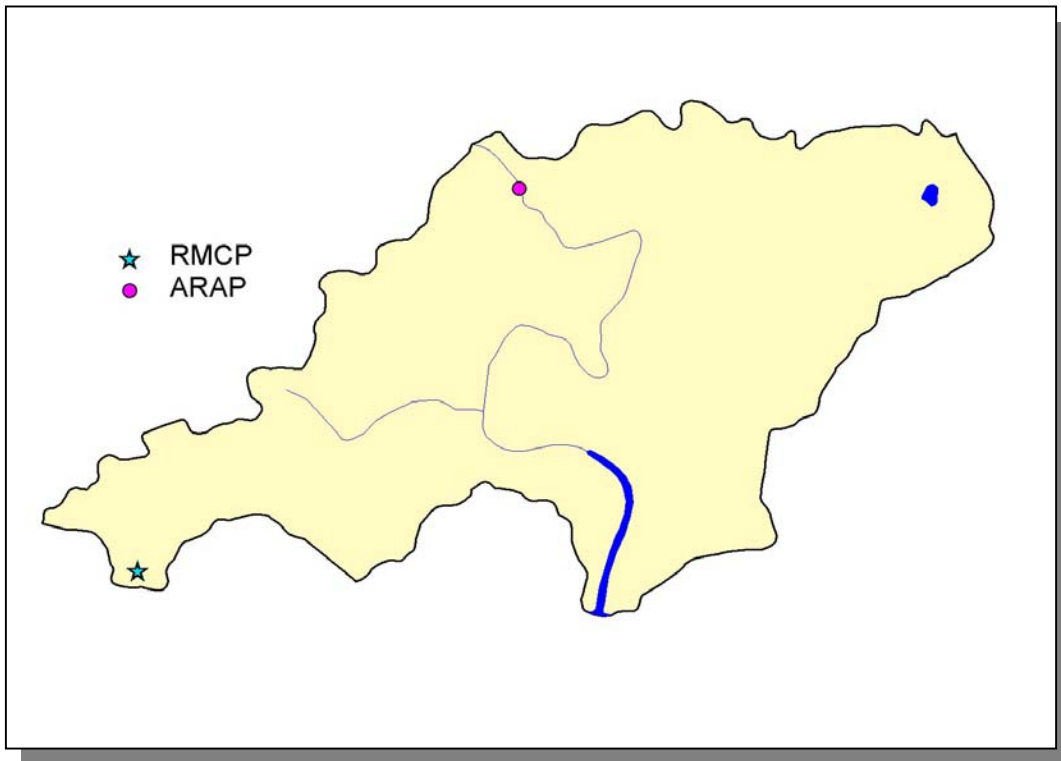
**Table 4-146. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 051302060605.**



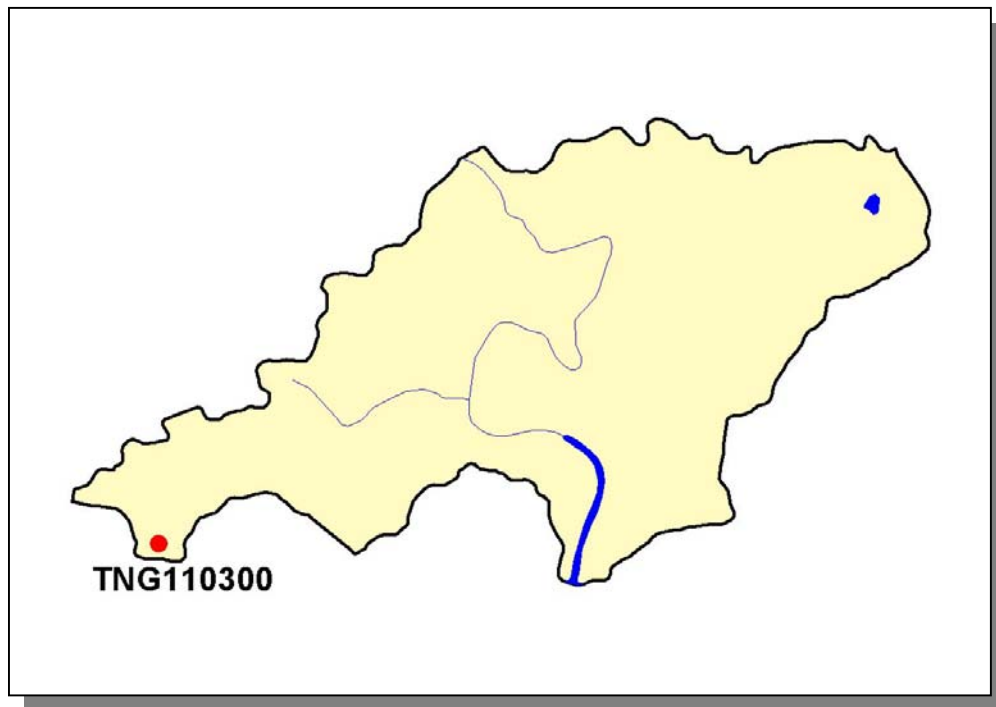
**Figure 4-185. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051302060605.** More information, including site names and locations and stations located in the watershed outside of Tennessee, is provided in Appendix IV.



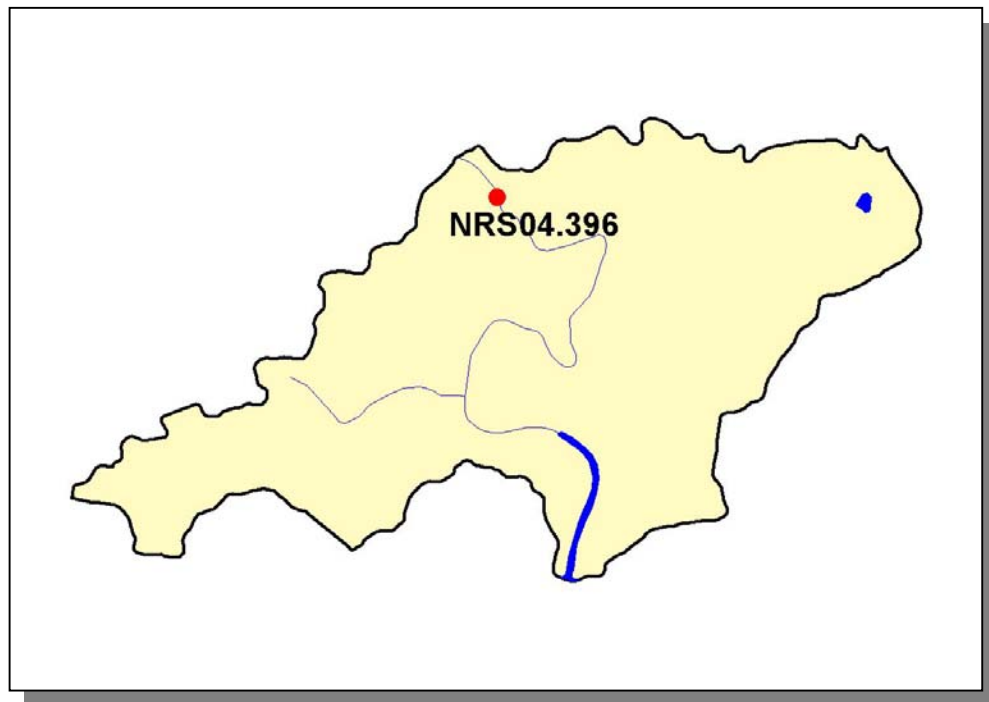
**4.2.E.iii.a. Point Source Contributions.**



**Figure 4-186. Location of Permits Issued in Subwatershed 051302060605.** More information, including the names of facilities, is provided in Appendix IV.



**Figure 4-187. Location of Ready Mix Concrete Plants (RMCP) in Subwatershed 051302060605.** More information is provided in Appendix IV.



**Figure 4-188. Location of Aquatic Resource Alteration Permit (ARAP) Sites (Individual Permits) in Subwatershed 051302060605.** More information is provided in Appendix IV.

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**4.2.E.iii.b. Nonpoint Source Contributions.**

LIVESTOCK COUNTS				
Beef Cow	Cattle	Milk Cow	Hogs	Sheep
245	473	12	22	<5

**Table 4-147. Summary of Livestock Count Estimates in Subwatershed 051302060605.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Montgomery	16,051	30,959	760	913	1,408	107

**Table 4-148. Summary of Livestock Count Estimates in Montgomery County.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Montgomery				

**Table 4-149. Forest Acreage and Annual Removal Rates (1987-1994) in Montgomery County.**

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.45
Grass (Hayland)	0.29
Legumes, Grass (Hayland)	0.40
Grass, Forbs, Legumes (Mixed Pasture)	0.55
Corn (Row Crops)	8.04
Soybeans (Row Crops)	4.26
Tobacco (Row Crops)	22.25
Conservation Reserve Program Lands	0.41
Farmsteads and Ranch Headquarters	0.04

**Table 4-150. Annual Estimated Total Soil Loss in Subwatershed 051302060605.**